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## NOTICE OF ALLOWANCE AND FEE(S) DUE

22116

7590

09/02/2009

SIEMENS CORPORATION INTELLECTUAL PROPERTY DEPARTMENT 170 WOOD AVENUE SOUTH ISELIN, NJ 08830

EXAMINER					
DUONG, THO V					
ART UNIT	PAPER NUMBER				
3744					

DATE MAILED: 09/02/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/588.351	08/03/2006	Friedhelm Schmitz	2003P17919WOUS	8666

TITLE OF INVENTION: HEAT EXCHANGER TUBE, HEAT EXCHANGER AND USE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/02/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

## Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

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								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	ГOR		ATTOF	RNEY DOCKET NO.	CONFIRMATION NO.
10/588,351	08/03/2006		Friedhelm Schmitz	Z		200	3P17919WOUS	8666
		TUBE, HEAT EXCHAN						
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810	12/02/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS	凵				
DUONG	, THO V	3744	165-133000					
Change of correspondence address or indication of "Fee Address" (37 FR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of up or agents OR, altern (2) the name of a sregistered attorney 2 registered patent	e names of up to 3 registered patent attorneys ents OR, alternatively, e name of a single firm (having as a member a ered attorneys or agent) and the names of up to stered patent attorneys or agents. If no name is , no name will be printed.				
PLEASE NOTE: Unl recordation as set fort (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE		data will appear on th T a substitute for filing (B) RESIDENCE: (C	ne pa g an a	tent. If an assignee ssignment. and STATE OR CC	OUNT.	RY)	cument has been filed for up entity
<ul> <li>a. The following fee(s):</li> <li>Issue Fee</li> </ul>	are submitted:	4t	o. Payment of Fee(s): (I		se first reapply any	previ	iously paid issue fee s	hown above)
☐ Publication Fee (N	No small entity discount p	permitted)	Payment by credit	t card	l. Form PTO-2038 i	is atta	ched.	
Advance Order - 4	# of Copies		The Director is her overpayment, to D	reby Depos	authorized to charge it Account Number	e the r	equired fee(s), any def (enclose an	iciency, or credit any extra copy of this form).
	<b>tus</b> (from status indicated s SMALL ENTITY statu		☐ b. Applicant is no	long	er claiming SMALI	LENT	TTY status. See 37 CF	R 1.27(g)(2).
OTE: The Issue Fee an terest as shown by the i	d Publication Fee (if requeecords of the United Sta	rired) will not be accepted tes Patent and Trademark	d from anyone other the Office.	an th	e applicant; a regist	ered a	ttorney or agent; or the	e assignee or other party in
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Typed or printed name	e				Registration No			
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SIEMENS CORE	PORATION		DUONG	, THO V
	PROPERTY DEPART	TMENT	ART UNIT	PAPER NUMBER
170 WOOD AVEN ISELIN, NJ 08830			3744 DATE MAILED: 09/02/200	9

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 156 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 156 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
	10/588,351	SCHMITZ, FRIEDHELM		
Notice of Allowability	Examiner	Art Unit		
	Tho v. Duong	3744		
The MAILING DATE of this communication appe	ears on the cover sheet w	vith the correspondence address		
All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) <b>NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI</b> of the Office or upon petition by the applicant. See 37 CFR 1.313	or other appropriate comr GHTS. This application is	nunication will be mailed in due course.		
1. This communication is responsive to <u>8/6/09</u> .				
2. X The allowed claim(s) is/are 12,13,18,20,22 and 24.				
3. ☑ Acknowledgment is made of a claim for foreign priority ur a) ☑ All b) ☐ Some* c) ☐ None of the:	• , , ,	) or (f).		
1. 🛛 Certified copies of the priority documents have				
2. Certified copies of the priority documents have				
3. Copies of the certified copies of the priority do	cuments have been receiv	ed in this national stage application from	n the	
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the requiremer	nts	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			OF	
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	et be submitted.			
(a) $\square$ including changes required by the Notice of Draftspers	on's Patent Drawing Revi	ew ( PTO-948) attached		
1) ☐ hereto or 2) ☐ to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment	or in the Office action of		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			Ť	
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT				
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. Notice of	Informal Patent Application		
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413), b./Mail Date		
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date		s Amendment/Comment		
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner	s Statement of Reasons for Allowance		
····· <b>J</b>	9. 🔲 Other	<u></u> .		
/Tho v Duong/				
Primary Examiner, Art Unit 3744				

# **DETAILED ACTION**

# Allowable Subject Matter

Claims 12-13,18,20,22 and 24 are allowed.

The following is an examiner's statement of reasons for allowance: the prior art of record either taken singularly or in combination fails to disclose the invention as claimed. In particular, reference to Montgomeric's 386 is the closest prior art but fail to disclose a second toxically acting layer arranged on a non-uppermost portion of the inside surface of the tube but not arranged on the uppermost portion of the inside surface, wherein the toxically acting layer reduces formation and growth of organic substances on the non-uppermost portion of the inside surface of the tube, and in conjunction with other limitation in the claims..

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tho v. Duong whose telephone number is 571-272-4793. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tyler J. Cheryl can be reached on 571-272-4834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/588,351 Page 3

Art Unit: 3744

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Tho v Duong/ Primary Examiner, Art Unit 3744